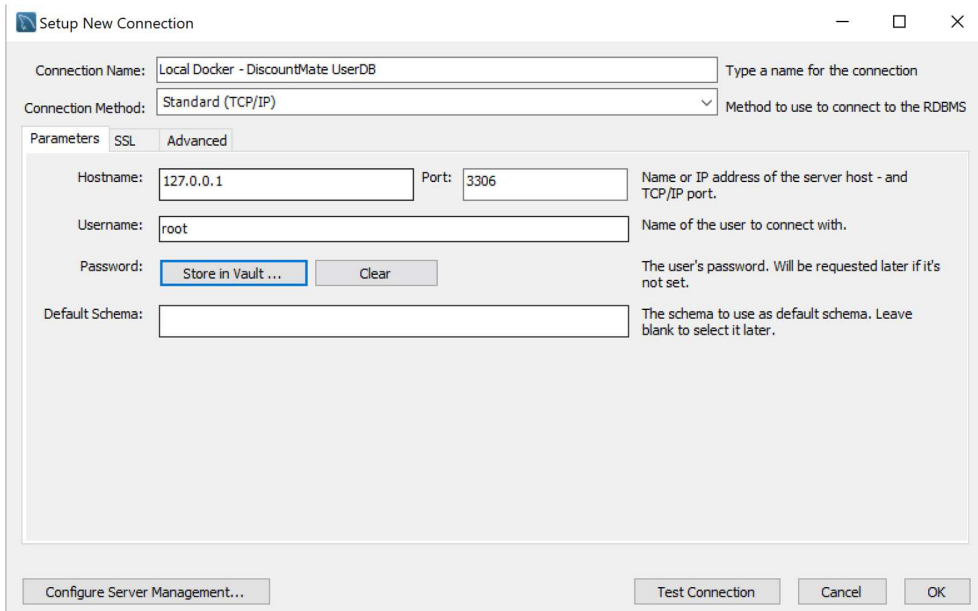


SIT378 – DiscountMate User Database – Docker Guide

Setting up Docker for MySQL from Scratch for Local Use

- Go to <https://docs.docker.com/get-docker/> to download Docker Desktop and sign up.
- Login to the Docker Desktop program.
- Run the following in Command Line or Terminal (Changing the password if deploying non-locally).
 - o `docker login`
 - o `docker run --name DiscountMate_UserDB -p 3306:3306 -e MYSQL_ROOT_PASSWORD=DiscountMatePW -d mysql`
 - o Run `docker ps` to check that the container has been created and the ports are open.
- Now install and run MySQL workbench from <https://dev.mysql.com/downloads/workbench/>
- Press the plus sign next to MySQL connections and input the following



The screenshot shows the 'Setup New Connection' dialog box in MySQL Workbench. The 'Connection Name' is 'Local Docker - DiscountMate UserDB'. The 'Connection Method' is 'Standard (TCP/IP)'. The 'Parameters' tab is selected, showing fields for 'Hostname' (127.0.0.1), 'Port' (3306), 'Username' (root), 'Password' (with a 'Store in Vault ...' button), and 'Default Schema'. The 'Test Connection' button is visible at the bottom right.

- o
- o Press store in vault and enter the password given in the above command.
- o Press test connection if successful it should show the following:

MySQL Workbench



Successfully made the MySQL connection

Information related to this connection:

Host: 127.0.0.1

Port: 3306

User: root

SSL: enabled with TLS_AES_128_GCM_SHA256

A successful MySQL connection was made with the parameters defined for this connection.

OK

- Double click on the new connection and type `SELECT NOW()` and if the current time displays, you have successfully setup the database locally.

Exporting and Importing Images

Export

- In your terminal/command prompt, type `docker ps` and copy the docker container ID for the chosen container.
- Execute `docker export container_id > mydb.zip`
- We can now share the file to other people.

Import

- In terminal/command prompt, type `docker import - mydb < mydb.zip`
- Type `docker images` to check the image has been installed.
- Use Docker Desktop to run the image.